MISSOURI BOTANICAL GARDEN

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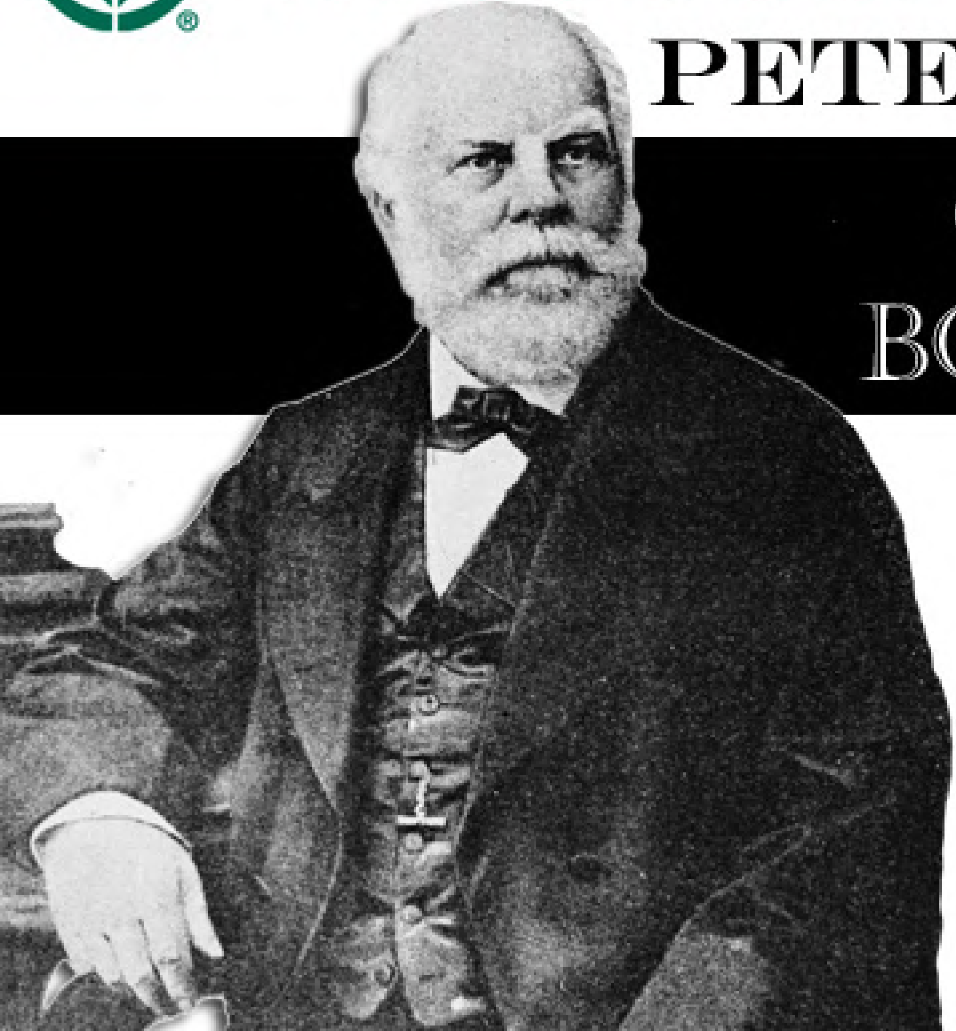

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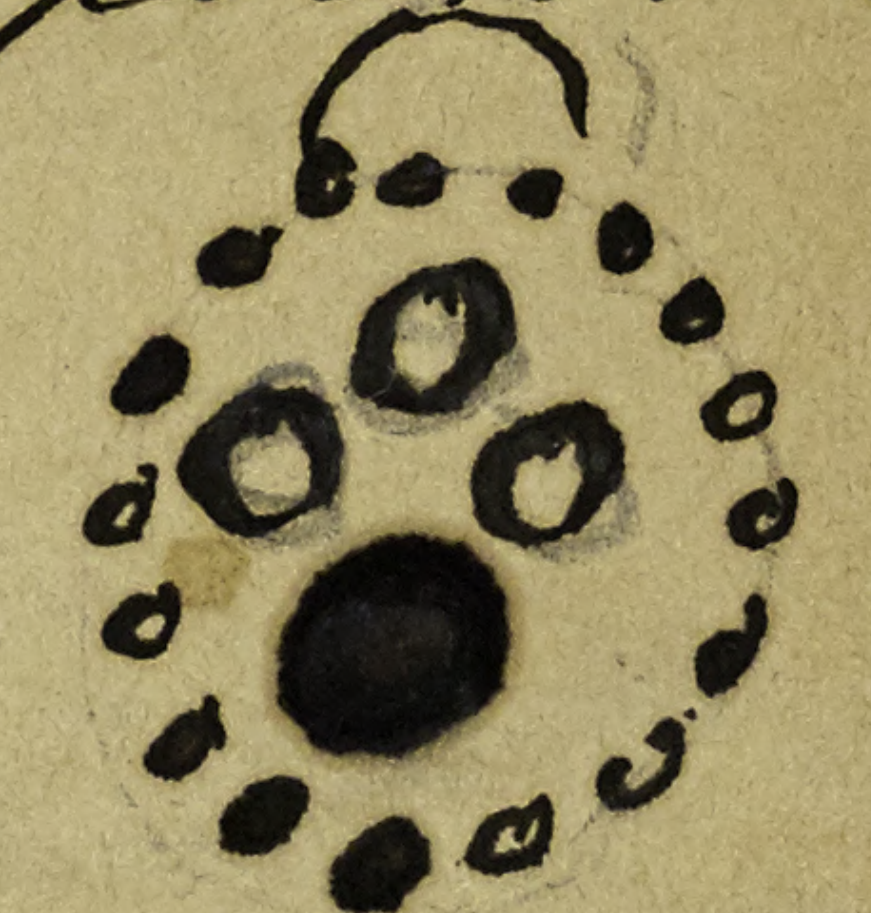
May 14 1883

Echinocactus Sileri n. sp. about 4 inches through – globose

mammillaeformis, tuberculis in $\frac{21}{34}$ ordine (13 prominentibus) majoribus distantibus – crassis angulatis, ~~subcompressis~~ subrhombeis aculeis centralibus 4 nigris inferiore robustiore, paulo breviore 3 superioribus longioribus pollicaribus

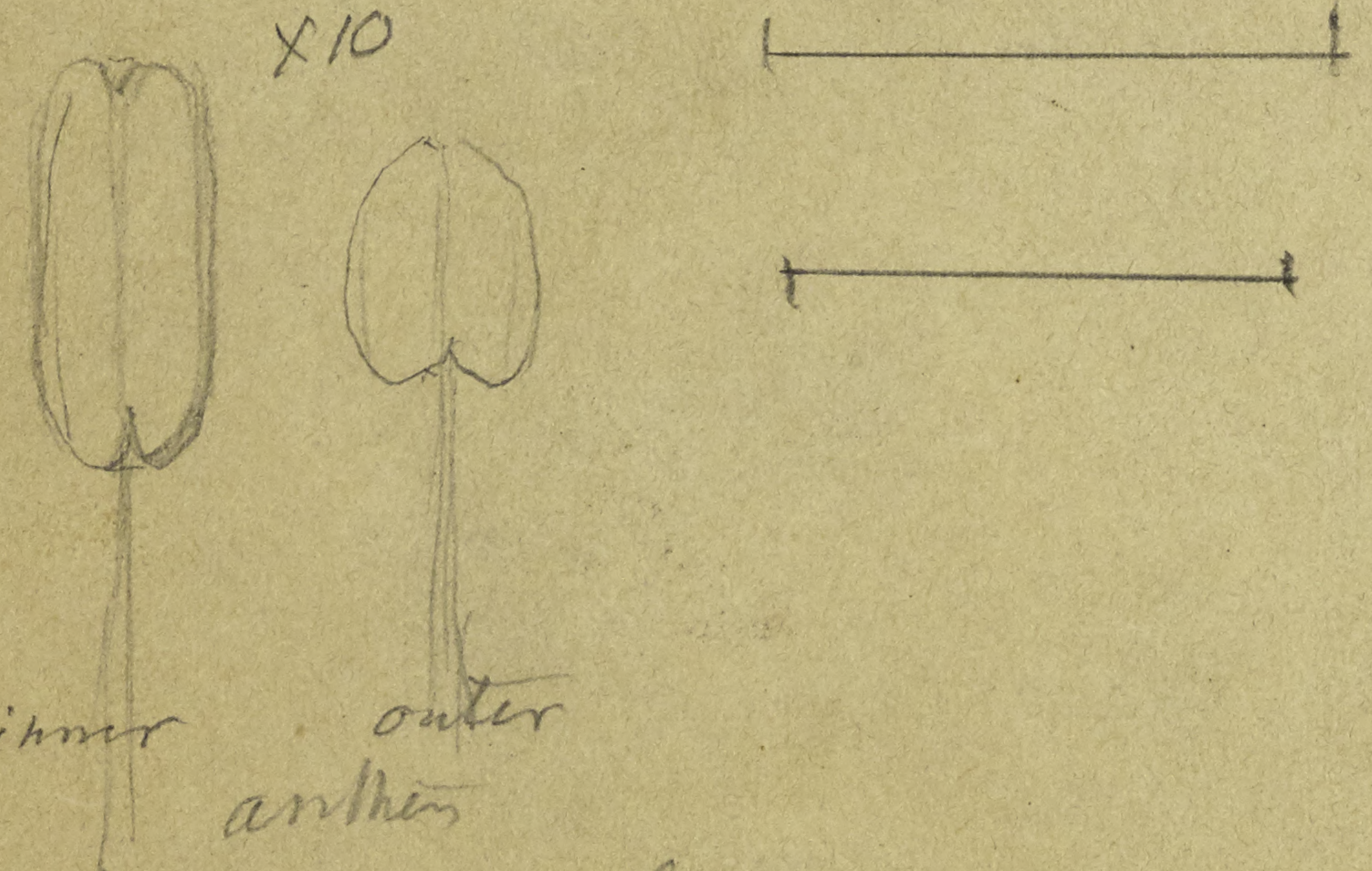
radialibus 14–18 albidis apice saepe sphacelatis, superioribus longioribus 9 lin., inferioribus 6 lin. longis



Cottonwood Spring, Utah, A L Siler April 1883

Flower 13–14 lines long, about 5–6 sepals on ovary, about 40–45 sepals of tube 18–20 petals strawcolored; 6–7 ~~erect~~ short stigmas 1½–1¾ lin. long

anthers of innermost filaments much larger than those of outer ones



2 mm long

1.1 mm long
not emarginate at tip

diameter of Pollen of larger $\frac{28}{415} = 0.067$
of smaller anthers $\frac{24.5}{415} = 0.059$

1464

0 1 2 3 4 5 6 7 8 9 10
cm
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May 14 1883

1465

Echinocactus Sileri n. sp. stoloniferus glaucescens

Mamillariaeformis; tuberculis in $\frac{21}{34}$ ordin. (13 prominentibus) dense congestis ~~applanatis~~ mamillis brevibus, ovatis, ~~a latere compressis~~ rhombeo-angulatis

aculeis centralibus 3 nigris (basi pallidis), medio robustiore 9 lin. long., superioribus paulo longioribus; radialibus 11-13 albidis v. apice sphacelatis, omnibus demum cinerascentibus.

floribus vix pollicaribus, ~~ex~~ apice tuberculi nascentis oriundis, arcte in axilla fasciculi aculeorum nascentis.

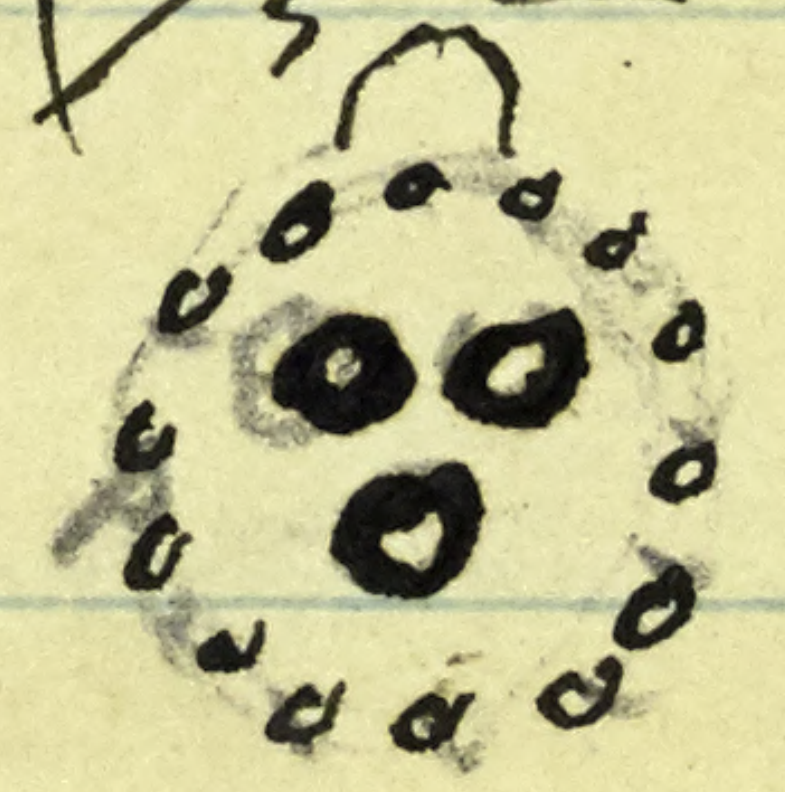
ovario brevissimo, 2 lin. - 2½ longo, globoso-depresso, sepalis lanceolatis fimbriatis 5-7 stipato.

sepalis tubi brevis ab 20 similibus dense fimbriatis; interioribus 10-15 petaloideis flavidis linea fusco-rubra notatis.

petalis fere 20 ~~pallide~~ stramineis, obtusis, denticulatis –

~~stigmate~~ nectario ½ lin longo –

stylo stamina superante, stigmata fere 8 brevia (¾ lin longa) erecta gerente.



Pipe springs, South Utah, A L Siler April 1883

Yours very truly
C. S. Sargent -
Special Agent.

~~Caruel~~
~~Regel~~
~~Decaisne~~
Todaro
~~Naudin~~
~~Masters~~
Taylor
~~Hook~~

Kew Sept 1869

Echinocactus streptocaulon Hook. Bot Mag 4562

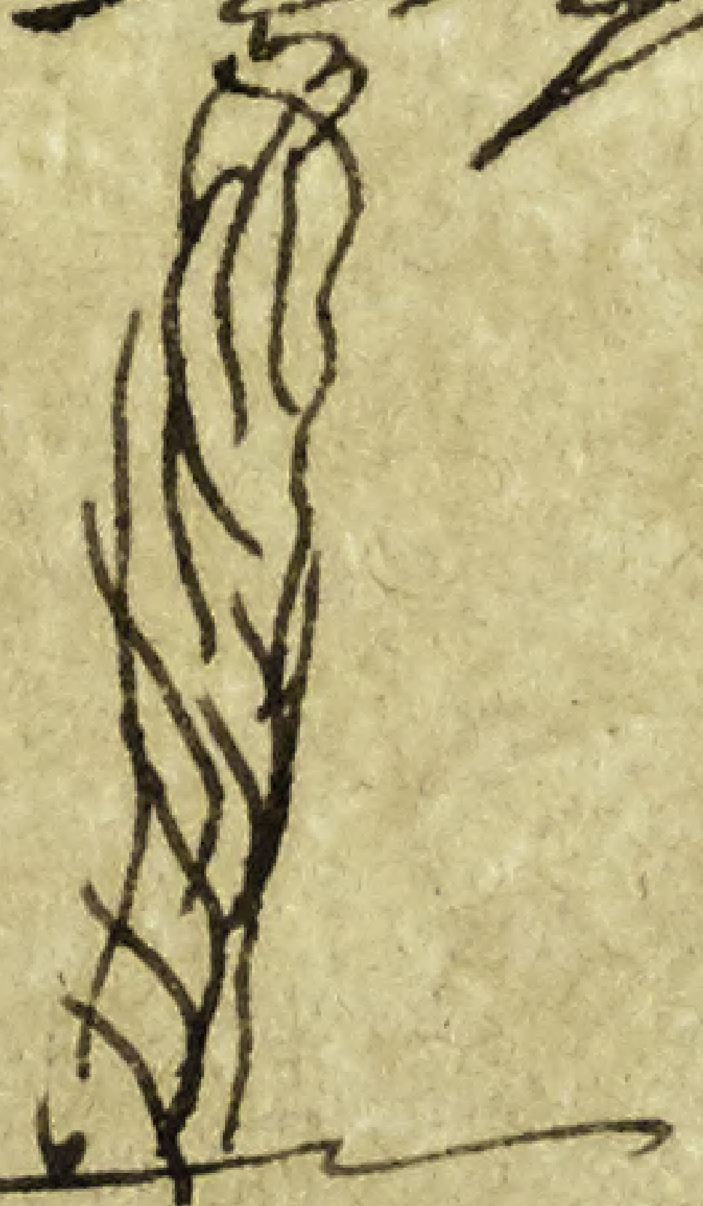
cylindric, twisted ribs, areola close to

5-6 mm apart, short stout spines 1 central

6 or 7 lateral ; flowers yellow small

scarcely 3 c diam, yellow stigmata

pl. 50c high, 10c in diam



columnar.

1466

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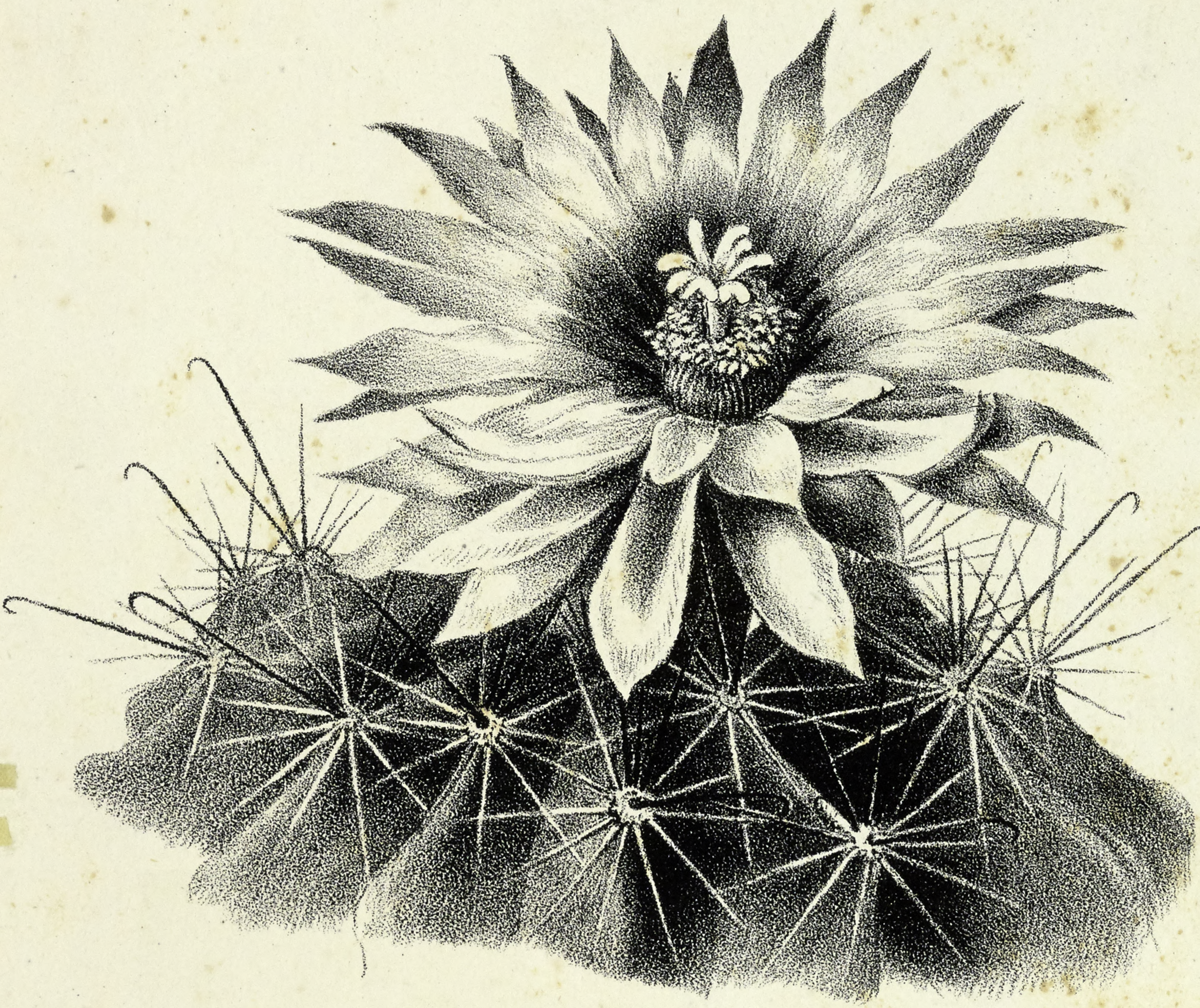
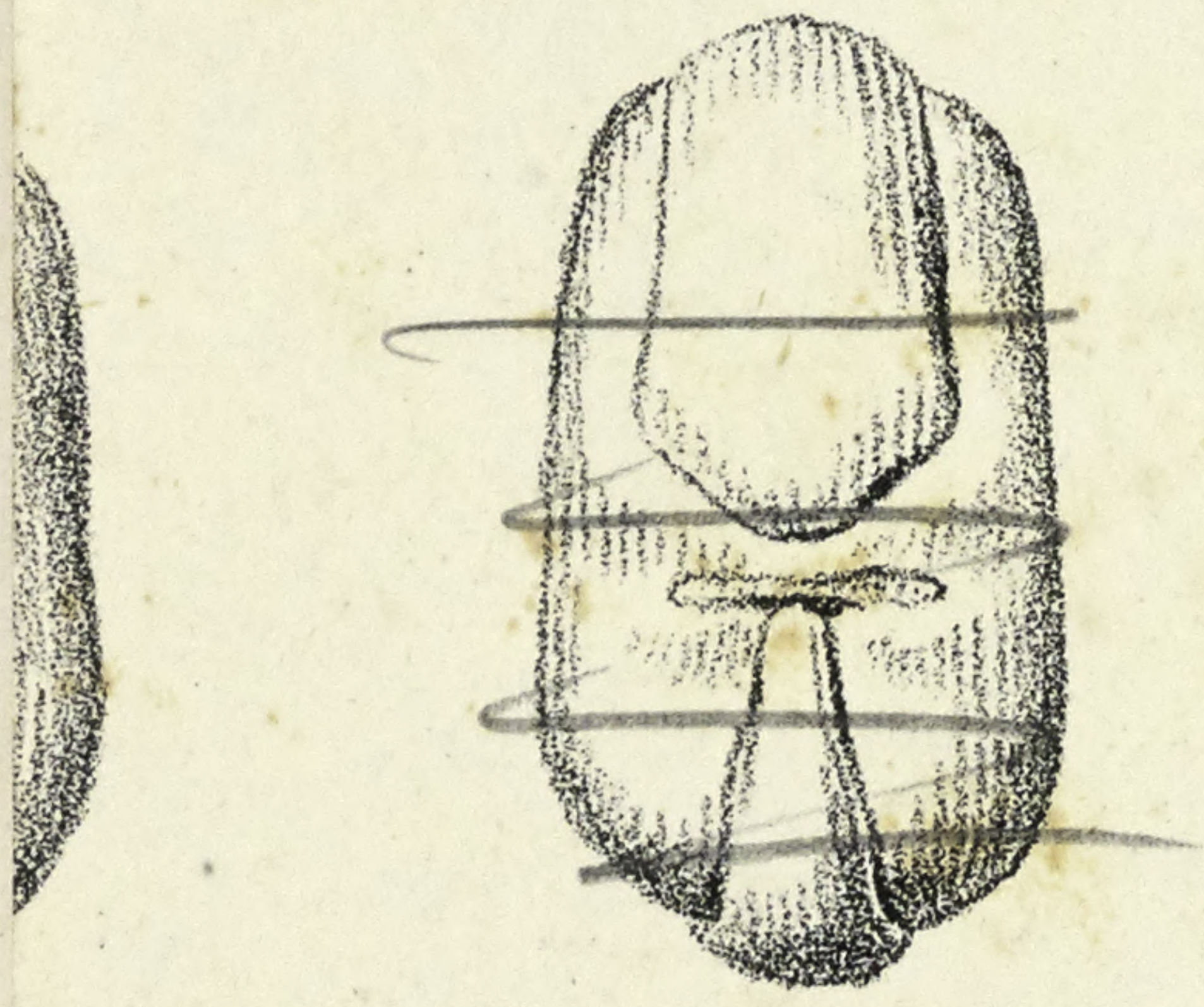
1467





Echin. setispin

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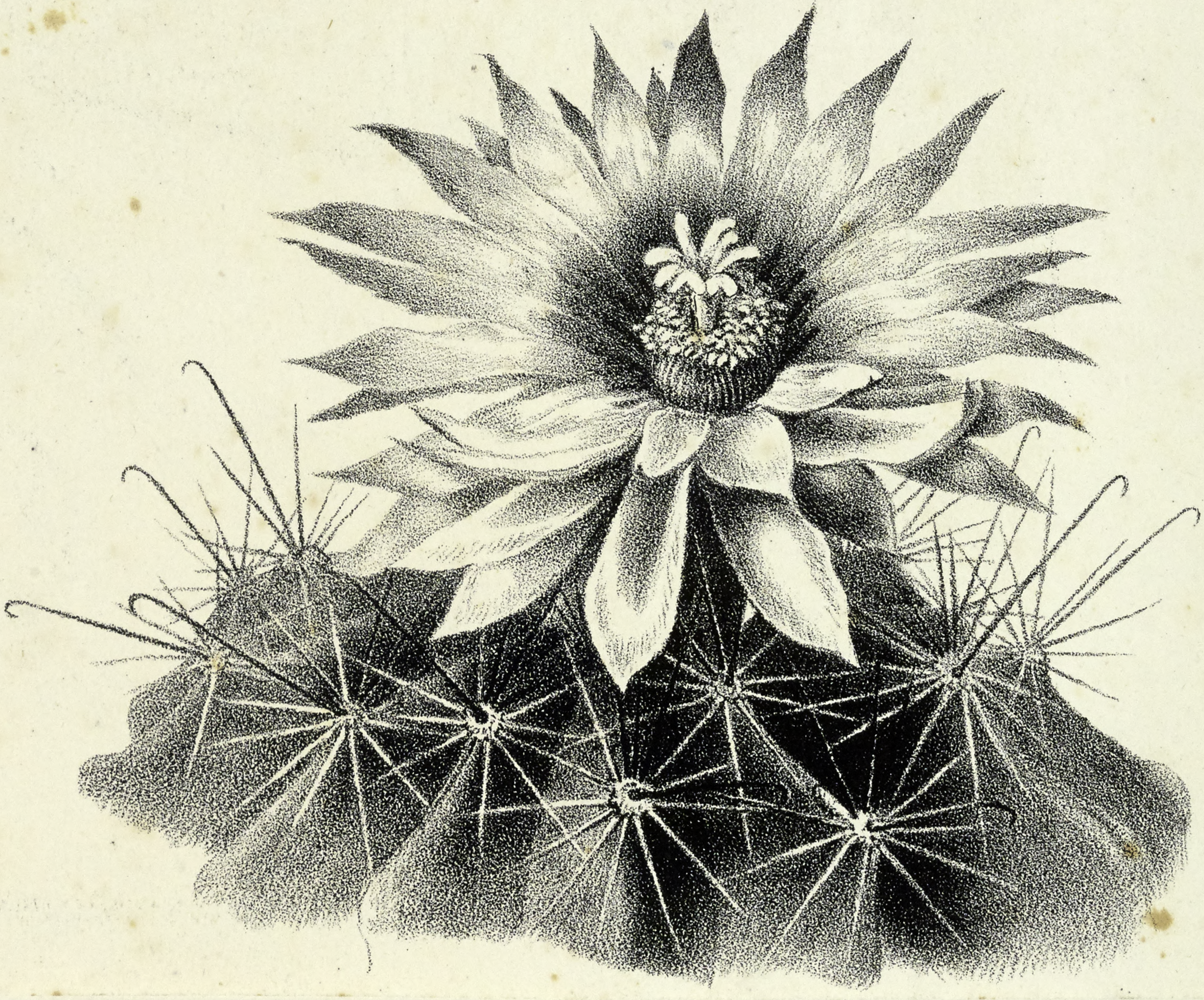
1467-A



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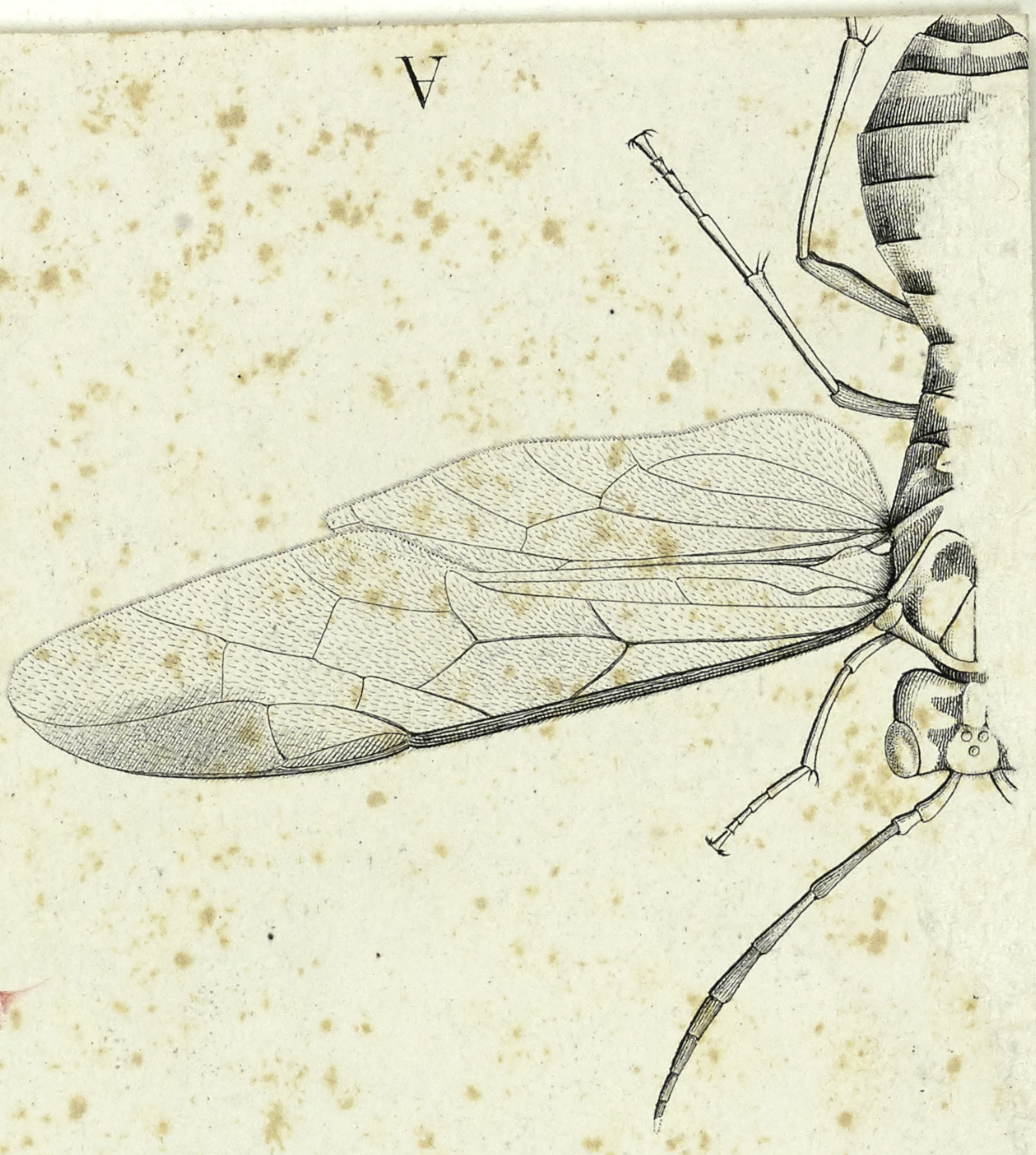

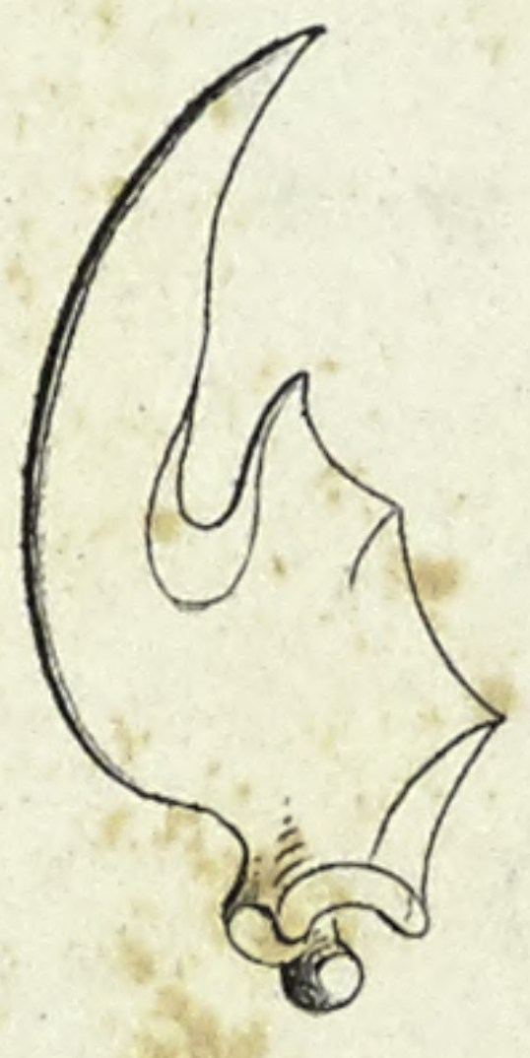

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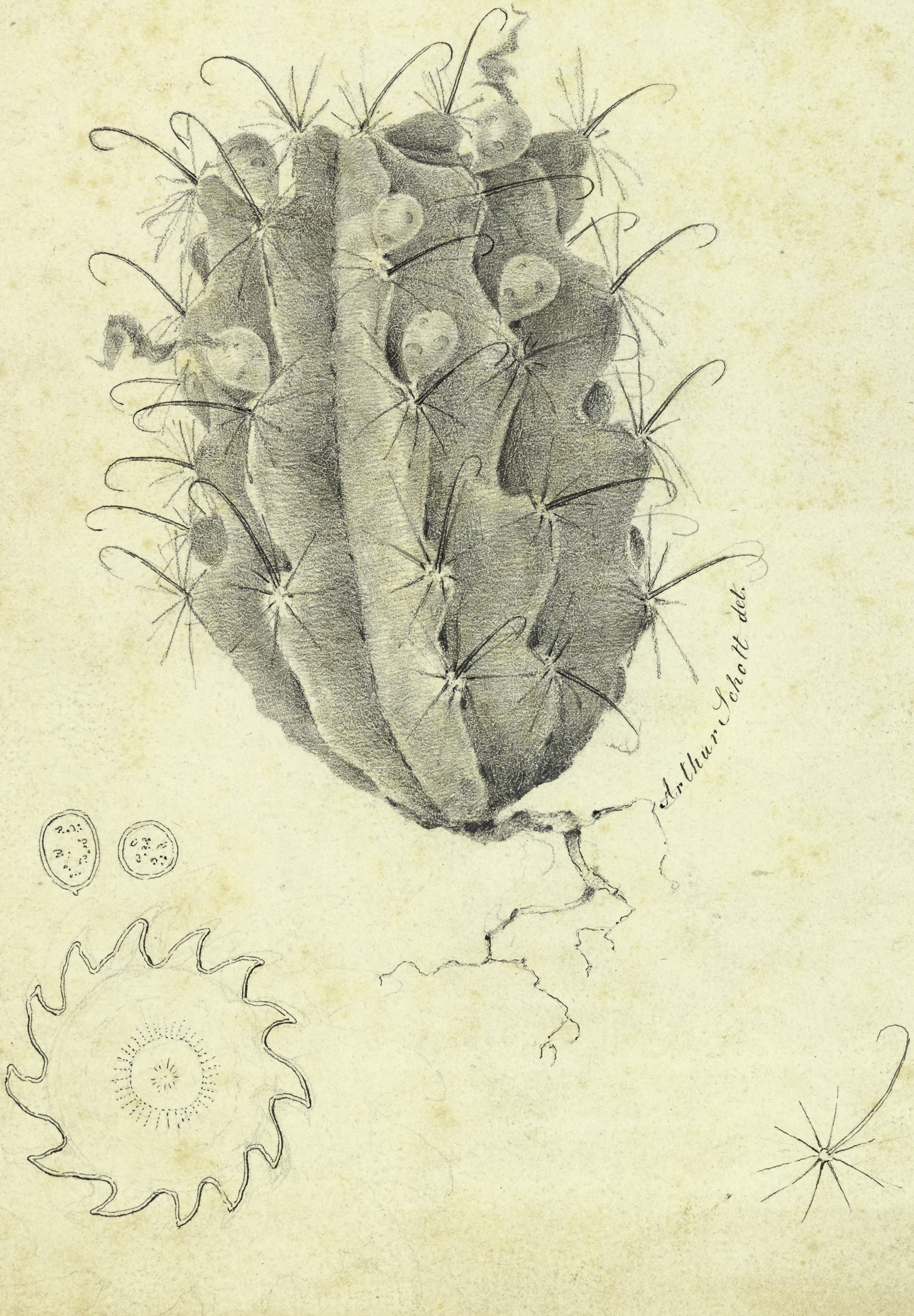
No 5.

1468



Arthur Schott del.

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Ech. setispinum

Central spine hooked.
Radial spines somewhat
bristle like longest reflexed
forming one periphery

nurascent,

f rio
be
ome-

ner
ons I

Echinocactus 2
Eagle Pass
March 19th 1852.

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E Setispinus

1469

fragilis ?

No 1. Opuntia. creeping, dwarfish. (frontibus purpurascent,

Natural size.

I remember having seen this species in the Valley of rio Bravo from the Cañon up towards El Paso. It seems to be common there on alluvial soil. The branches of it appear sometimes green sometimes purpurascent.

No 2. This Species? (Op. longispina) seems also to belong only to the upper part of the Rio Bravo country. According to my observations I setispinus

No 5. Echinocactus. This species seems to belong almost exclusively to the cretaceous tract of the Rio Bravo country. I saw it very common all along on the colluvial deposites from below the San Pedro river til down to the hillrange surrounding the level grounds back of Rio Grande City. It generally grows subcespitose, though frequently single detached specimens of it are met with.

Plant drawn of natural size.

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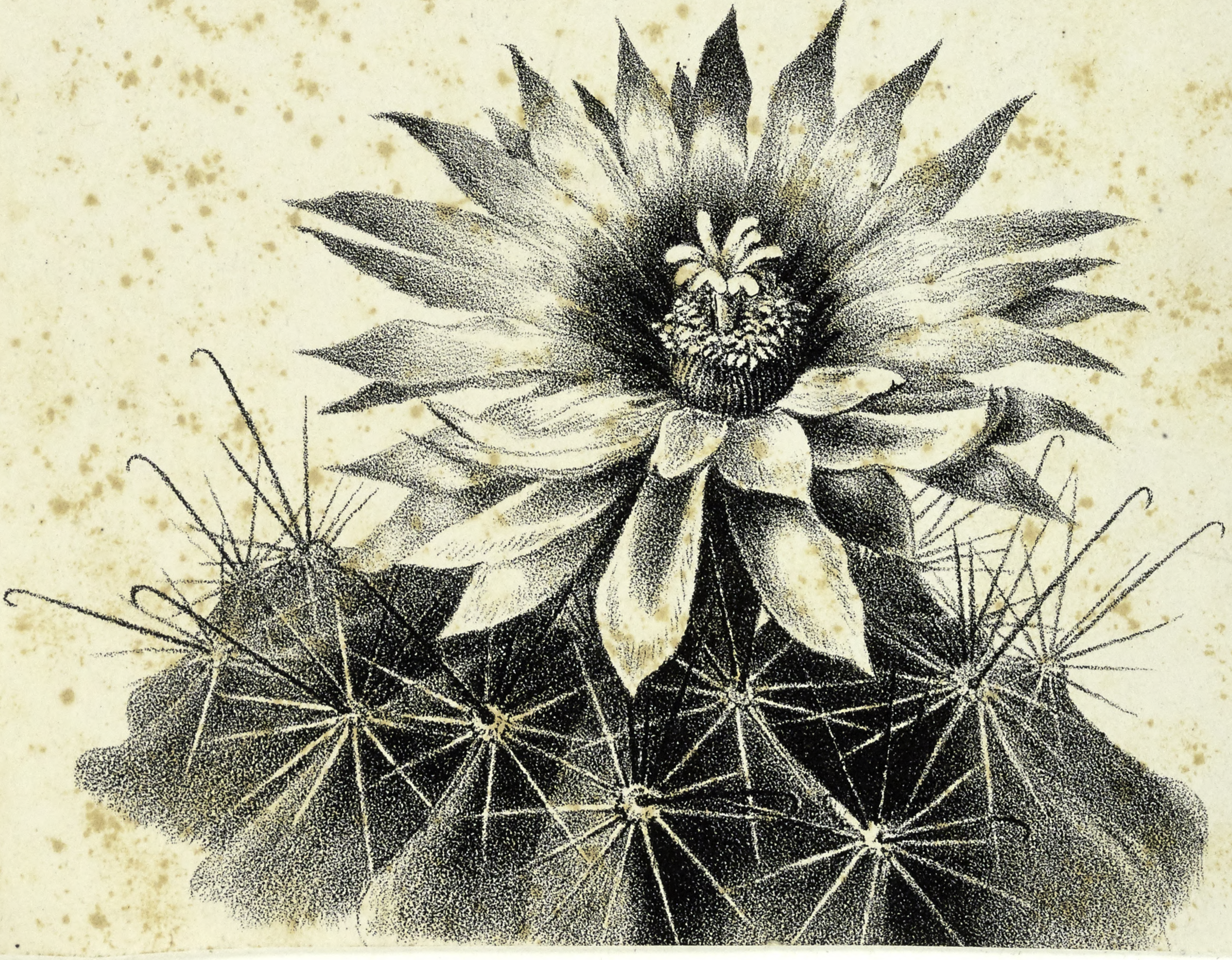
E. setispina

1469-A



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Ech. turbiniformis ! B. May 3984

spines only in centre, soon deciduous St

pl. 8''' diam depressed ; fl. 3-3½ diam

pale yellow. vertical

14.0

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Echinocactus turbiniformis probably is an Anhalonium. see notes – Anhalonium

1471

E. Scheerii is stoloniferous stolons as thick as a goosequill, sometimes a foot long

from letter of Dr Poselger

to Dr Weber 1869

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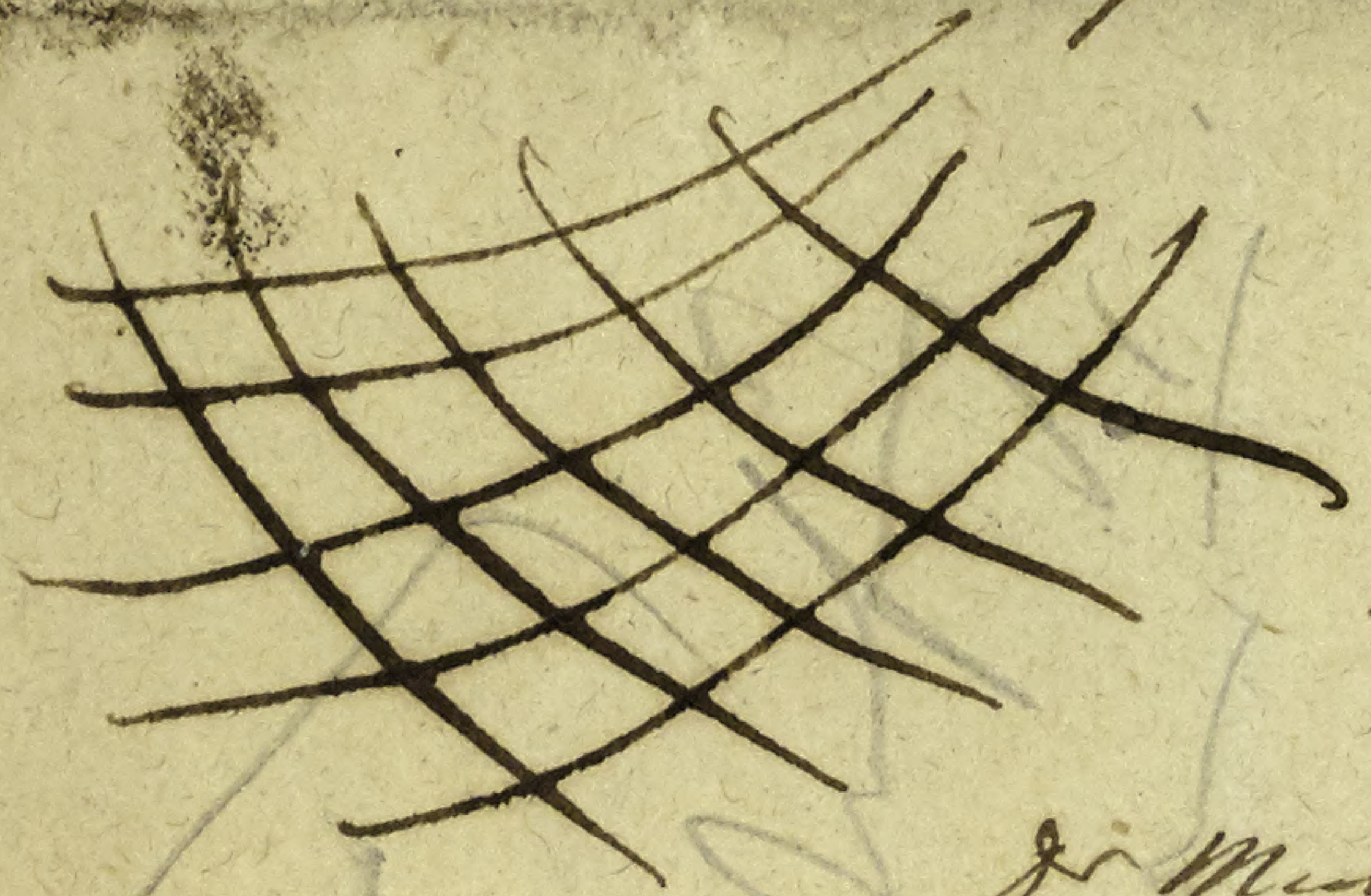
Ech. turbiniformis a peculiar applanate plant with regular 4 angular, flattened tubercles with 13 & 21 rows more distinct



all = 34 arrangement.

55

1472

Dr Muehlenpfordt Coll. Goettingen Jun 1857

Echinocactus turbiniformis

(fig in Pfeiffer Abbild. II. tab 3

is no doubt an Anhalonium (Poselger)

and is probably identical with

Mam. disciformis DeCand. (Weber)

Seeds very small, dust-like; light brown

Paris April 1869

1473

the "dustlike seeds" seem to distinguish it
from Anhalonium

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[illegible] wool of areolae

and slender flexible spines —

that wool is not persistent as in other Pilocerei but is deciduous after a year or so — so that often it is destitute of wool at least the lower older part is naked —

— X   walls: tube 1 cm thick

fl. 8 cm l. & wide — only [illegible] naked

petals whitish a little red in the

1 cm wide — petals long

style 3 mm thick, white 3 cm. long than the limb   10 stigmas erect short

fl. April – June —   no fr. seen

[illegible] at top

10–20 cm from the [illegible]

[illegible] (= 5–5 sides?)

fl. only limb visible — white is rose outside fl. 7 cm. long

limb spreading 7 cm

tube narrow, & without any wool

Hort Seitz Prag July 1869

Echinocactus tabularis spine

globular, small 2 inch diam 1 1/2 high — 17 ribs oblique tuberculated; areolae immersed spines numerous short setaceous central ones brown (group of Ottonis ?)

flower = submamillosus ; fide Seitz

1474

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C [illegible] PAPERS

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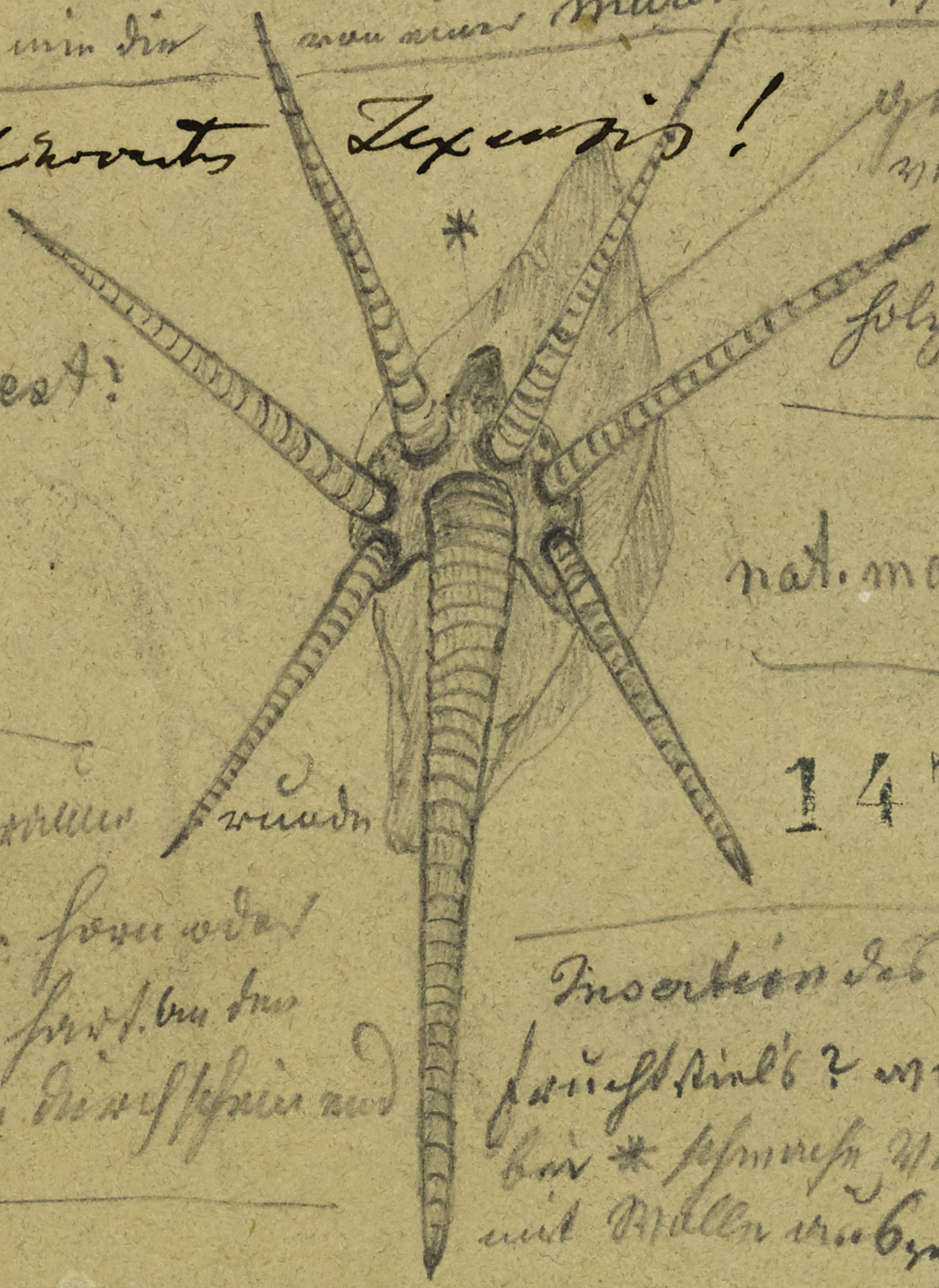
das Original ist zur disposition

Stacheln wie die von einem murex mit spitze.

Echinorutes Texensis!



quid est?

gelb wachsartig!

holzig

nat. magnit.

1475

7 gelbbraune runde
Stacheln horn oder
Chitin hart. bei den
Spitzen durchscheinend

Insertion des
Fruchtstiels? wo?
bei * schwache Vertiefung
mit Wollen überfüllt.

Lieber Doctor!
vorstehenden „Zweig" oder viel später das
„Natur" weiß ich nicht zu lösen. Es scheint
eine Beere oder Kapsel mit dornigter
Hülle zu sein. Ein S. Sommer brachte ihn
als a curious bug in meine office.
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Dr George Engelmann M.D.
3003 Locust Street
St Louis
Mo.

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Echinocactus Texensis

Hort. Goebel June 17 1864

1476

10 stigmata

red orange filaments

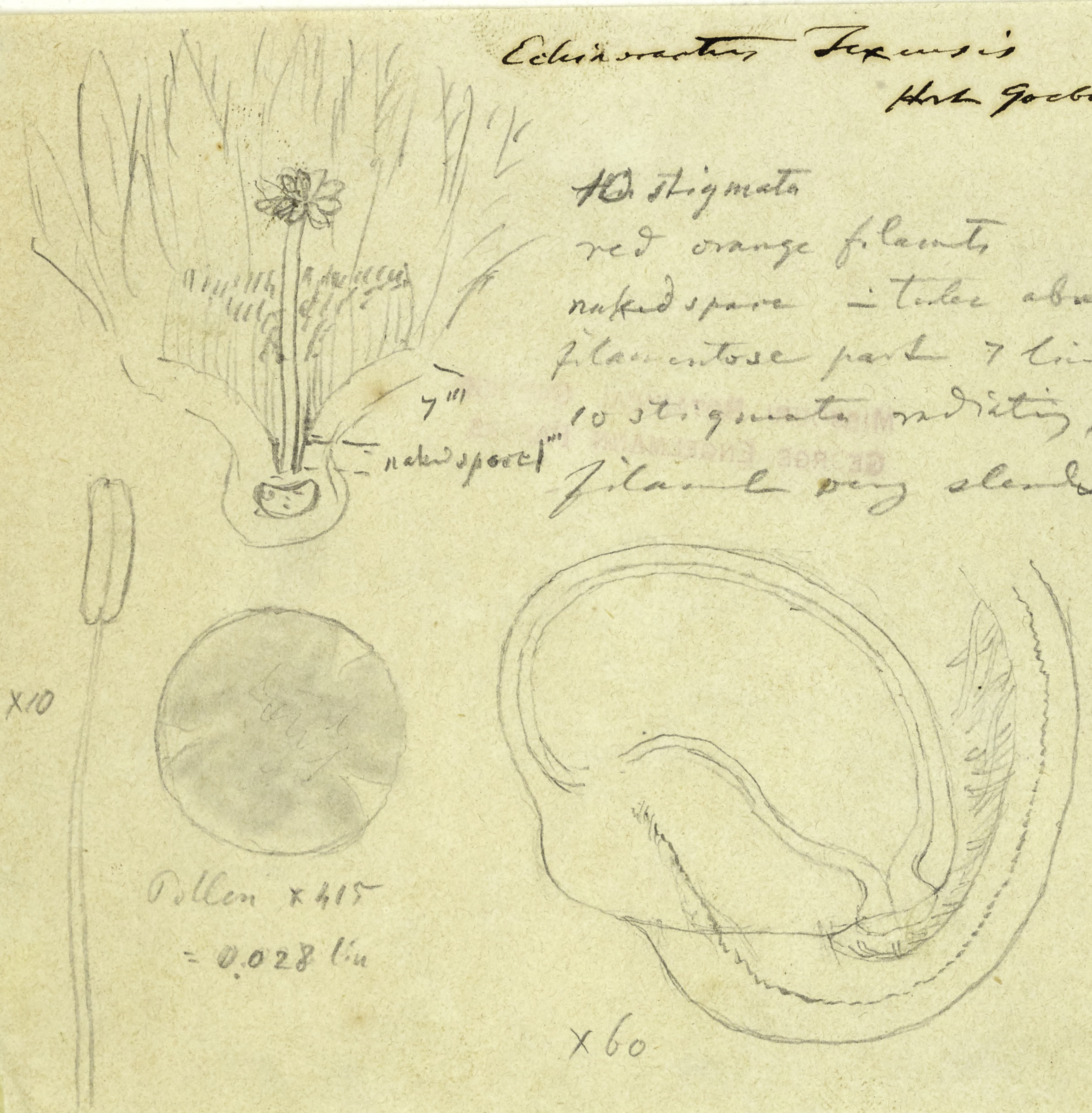
naked space in tube about 1 line long

filamentose part 7 lines long

10 stigmata radiating, anth. $\frac{2}{3}$ - $\frac{3}{4}$ line long

filament very slender, attenuate

funiculi simple or 2 united, 2 or 3 times as long as ovule - very filamentose


7'''
naked space 1'''
x10
Pollen x415
= 0.028 lin
x60

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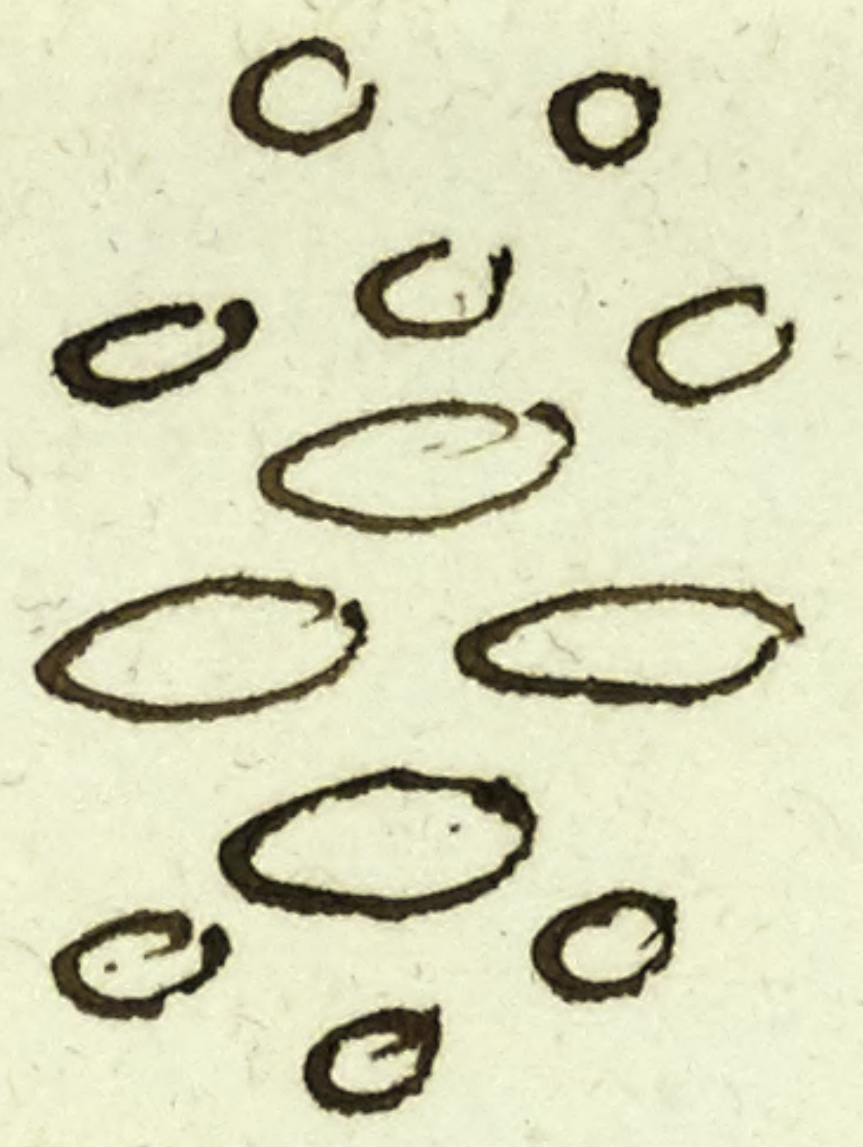
CHEMIST
A
ALEX. LEITCH,
APOTHECARY & CHEMIST,
Cor. 4th and Olive Sts., St. Louis.
ALL THE NEW REMEDIES CONSTANTLY ON HAND

Eck. Tulensis Posel.



At Dr Poselger's Berlin March 1857

1477

a true mamillate Echinocactus, (or a Coryphantha? probably the first!)

4 flattened central spines, cross-wrinkled, the lowest one stoutest; 3 lower and 3 upper radial spines and usually 2 upper slenderer additional ones, making 5 fascicled upper radial spines

Mamillae in 13 oblique rows or ribs; groove not extending far from the areola

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